TOGRN

BUNGALOWS SUMMER COTTAGES GARAGES

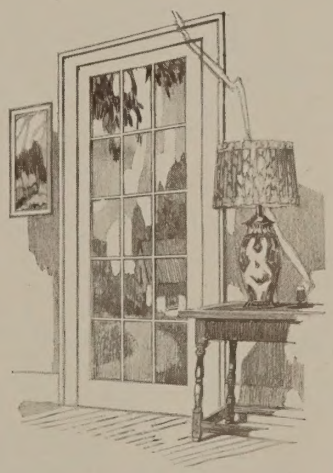
FOREWORD

WE FEEL confident that the majority of those who receive this book are already familiar with TOGAN READY-MADE BUILDINGS. However, a few have not had an opportunity to study our methods of construction, and it is for those that these few words are written.

TOGAN BUILDINGS are not "ready-cut"—they are *ready-made*. They come to you with the major part of the building made up in completed units or panels. Parts that cannot be made in panels, such as rafters and floor joist, are all manufactured to exact sizes, notched and cut where necessary, and are ready to put in place without further work. This is all brought out very clearly in the specifications given on pages 10, 17, 18 and 32.

In constructing TOGAN BUILDINGS only the most modern methods of production are used. Special machinery has been designed to cut the hand labor down to the minimum. *Over 66% of the carpenter labor is completed on every building before it leaves our factory.* While TOGAN BUILDINGS are standardized and produced by production methods, each and every one has an individuality of appearance that meets the most exacting taste.

Every TOGAN BUILDING is guaranteed to be just as represented; to comply to all details of the specifications; and to correspond to floor plans and elevations. We further guarantee that all grades of materials, sizes and dimensions will be maintained as specified. Before purchasing, read the specifications of your type of building carefully.



Terms of payment for all TOGAN BUILDINGS are as follows: 25% cash with the order, balance payable by sight draft, bill of lading attached. This is an invariable rule made necessary by the low prices at which our buildings are quoted. References: the Bradstreet Company, the Grand Rapids Savings Bank, the Old National Bank, and any other bank or business house of Grand Rapids.

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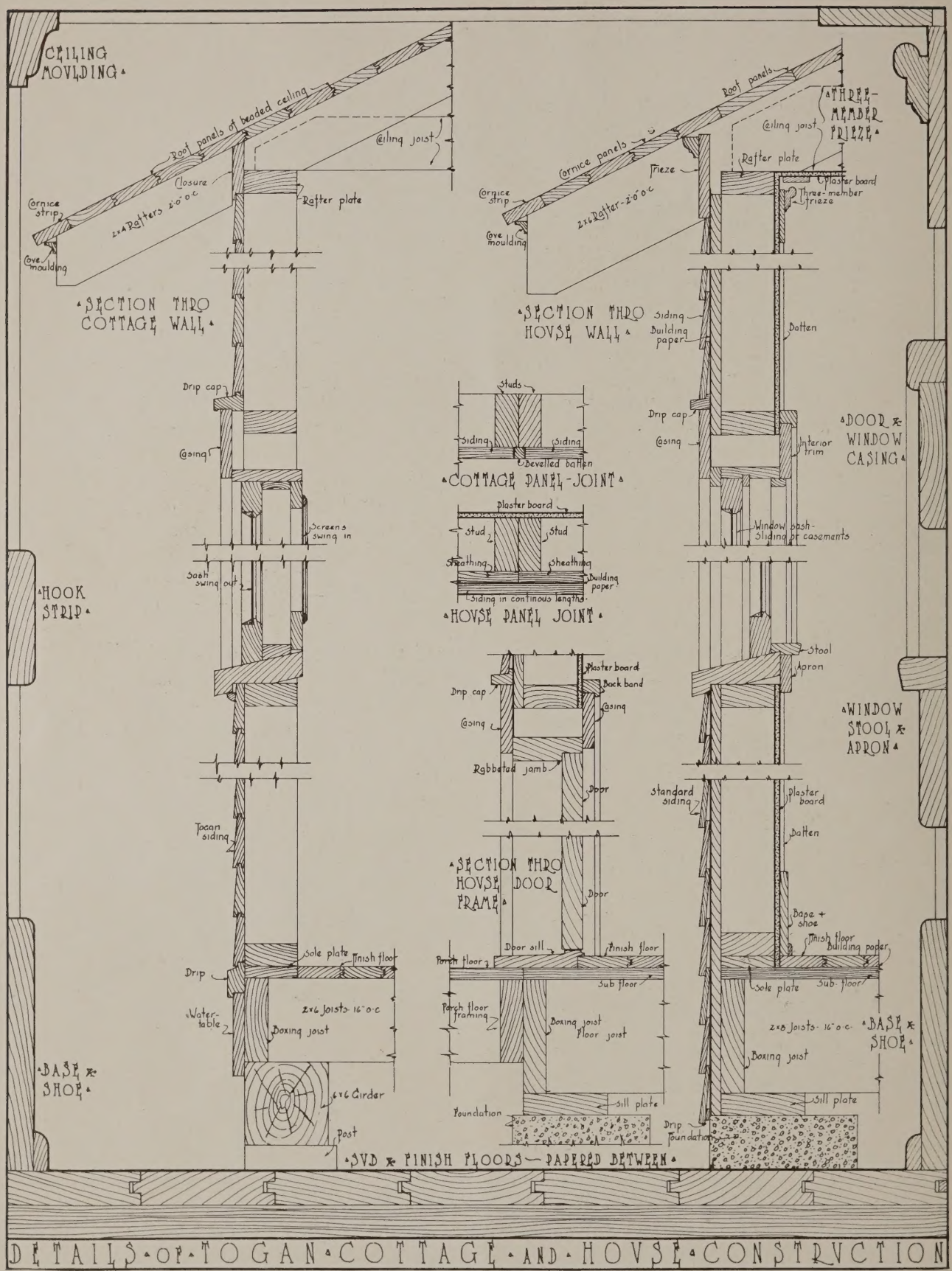
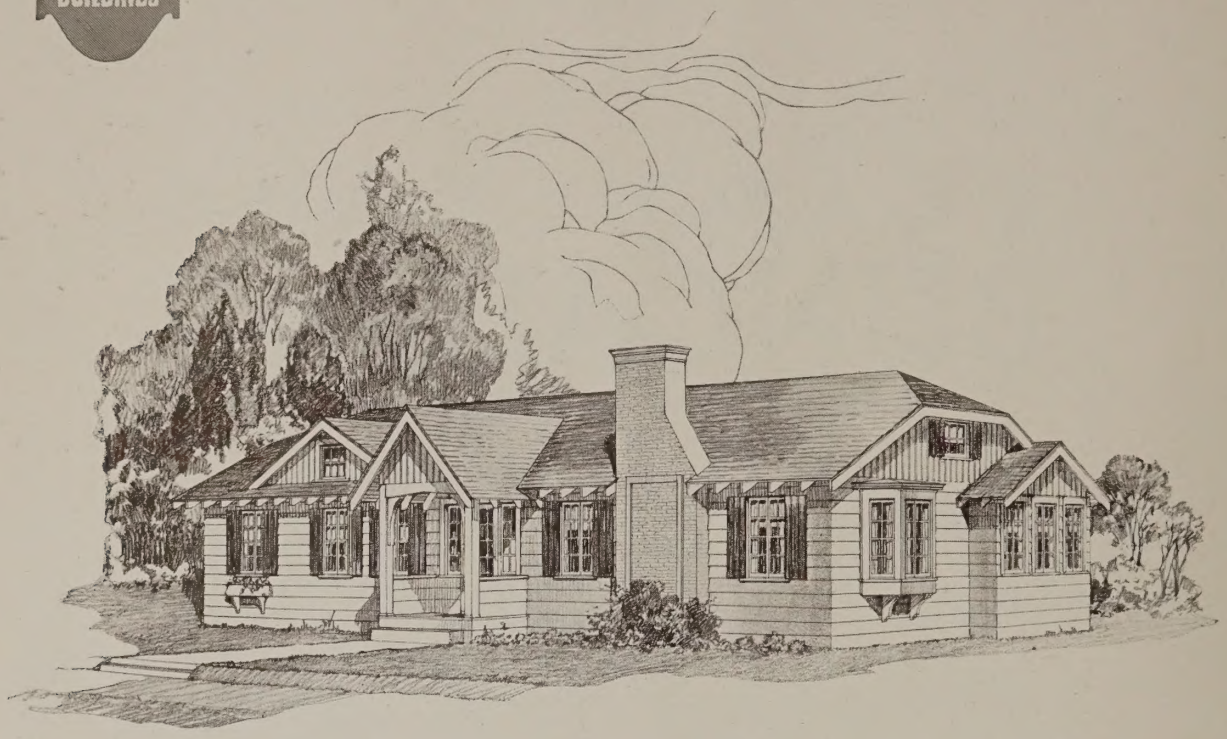
TOGAN-STILES INCORPORATED · GRAND RAPIDS, MICHIGAN


CEILING MOVLDING
Roof panels of beaded ceiling
Ceiling joist
Closure
Cornice strip
2"x4" Rafters 2'-0" c-c
Rafter plate
Cove moulding
SECTION THRO COTTAGE WALL
Drip cap
Casing
Screens swing in
Sash swing out
HOOK STRIP
Togan siding
Sole plate
Finish floor
Drip
Water-table
2"x6" Joists 16"-0" c-c
Boxing joist
6"x6" Girder
Post
BASE & SHOE
Roof panels
Cornice panels
Ceiling joist
THREE-MEMBER FRIEZE
Cornice strip
2"x6" Rafter 2'-0" c-c
Frieze
Rafter plate
Plaster board
Three-member frieze
Cove moulding
SECTION THRO HOVSE WALL
Siding
Building paper
Batten
Drip cap
Casing
Interior trim
DOOR & WINDOW CASING
Window sash - Sliding or casements
Stool
Apron
WINDOW STOOL & APRON
Standard siding
Plaster board
Batten
Base + shoe
Finish floor
Building paper
Sole plate
Sub floor
2"x8" Joists 16"-0" c-c
Boxing joist
BASE & SHOE
Sill plate
Drip
Foundation
Studs
Siding
Siding
Bevelled batten
COTTAGE PANEL-JOINT
Plaster board
Stud
Stud
Sheathing
Sheathing
Building paper
Siding in continous lengths
HOVSE PANEL JOINT
Plaster board
Back band
Drip cap
Casing
Casing
Rabbeted jamb
Door
SECTION THRO HOVSE DOOR FRAME
Door
Door sill
Finish floor
Porch floor
Sub floor
Porch floor framing
Boxing joist
Floor joist
Foundation
Sill plate
1"x8" & 1"x6" FINISH FLOORS — PAPERED BETWEEN
DETAILS OF TOGAN COTTAGE AND HOVSE CONSTRUCTION

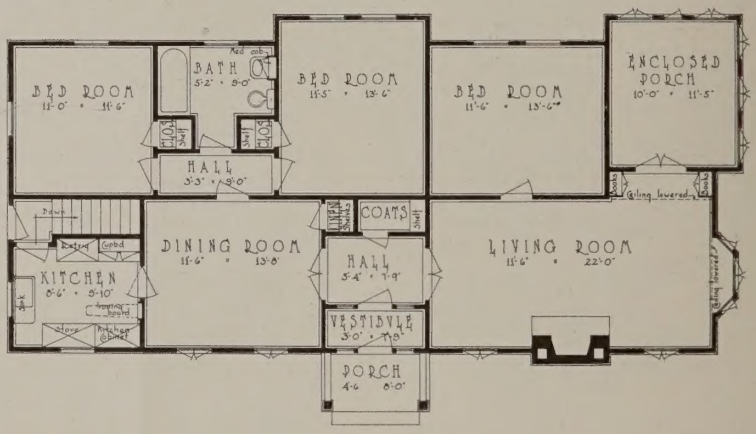
READY-MADE
BUNGALOWS

TOGAN
BUILDINGS



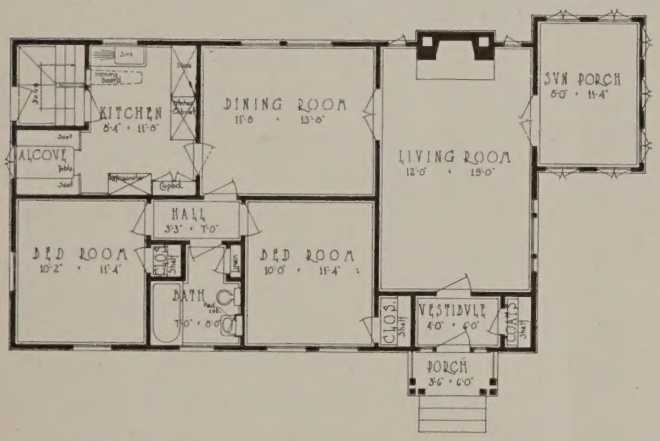
Togan Bungalow 712

OVERALL SIZE, 26'x56'
SHIPPING WEIGHT, 40,000 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 10



CAREFUL study of the building situation as it is today, has shown that suburban locations are given a decided preference over those which may strictly be called "city." These suburban lots are usually quite spacious, having a much wider frontage than those found within the city proper.

It has therefore been our aim to create models adapted to this type of lot. This will explain why these new TOGAN models have such unusual width. You will discover by careful study of each floor plan, however, that through ingenious design each model is easily adapted to the narrow city lot, by giving the building a quarter turn and placing the living room at the front.



Togan Bungalow 540

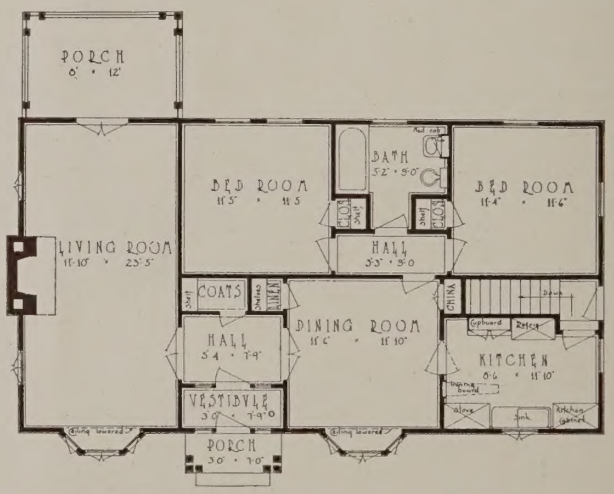
OVERALL SIZE, 26′x48′
SHIPPING WEIGHT, 33,000 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 10

UNDOUBTEDLY you have noticed that the illustrations of the TOGAN All-year Bungalows shown in this section, do not disclose any breaks in the siding where the sections are joined together. The elimination of these joints is the latest achievement of the TOGAN engineers. The better TOGAN homes now have the same exterior appearance when completed as the carpenter built house.

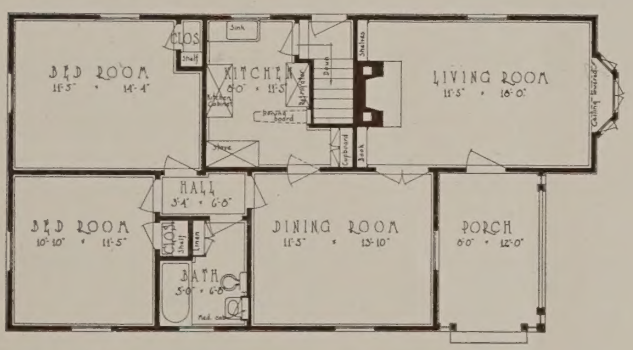
This has been accomplished by making the new models in true double wall construction. The wall sections are built up from the studding and sheathing. The siding is furnished in lineal lengths, to be applied to the exterior after the walls and gables are erected. An unusually fine grade of building paper is also used in the wall construction which assures great warmth and easy heating.

Togan Bungalow 542

OVERALL SIZE, 24′ x 44′
SHIPPING WEIGHT, 34,000 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 10



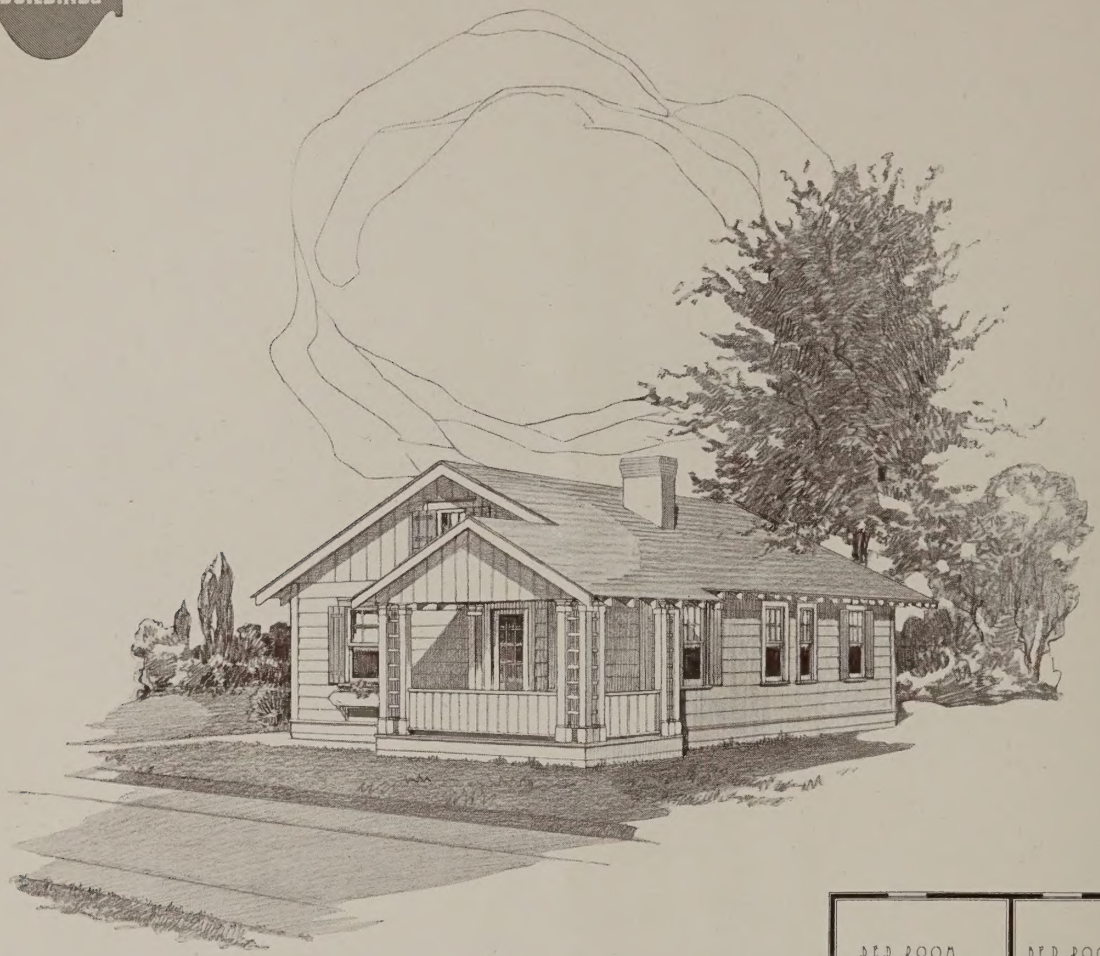
ALL TOGAN Buildings weighing over 10,000 pounds will be shipped in sealed box cars. Those weighing less will be securely crated and shipped as less-than-carload. In case of any loss or breakage in transit, we will co-operate fully in getting claims adjusted. Unless definite instructions are furnished with the order, shipments will be made by quickest and most direct route. During rush seasons orders will be handled according to their priority.



Togan Bungalow 543

OVERALL SIZE, 24'x44'
SHIPPING WEIGHT, 28,000 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 10

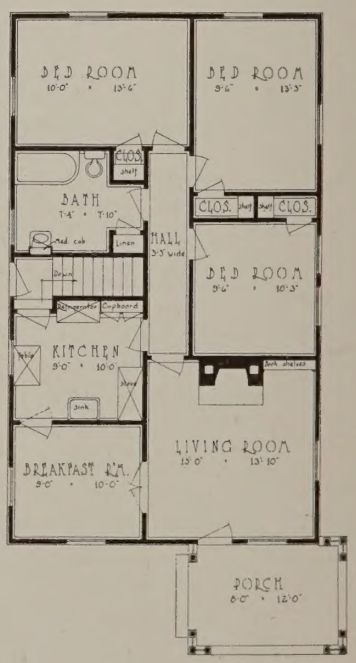
TO FACILITATE the distribution of TOGAN Buildings and to assure the customer of prompt and efficient service, we have made arrangements with a large number of concerns to sell and service our products. These dealers are thoroughly familiar with all phases of the product, and are in a position to quote delivered prices, cost of erecting and give other details necessary to the builder. Many of them have display buildings showing exactly how TOGAN Buildings are made and the materials furnished. These men have studied their local building conditions very carefully, so we feel they are better able to serve you than the Grand Rapids factory. Therefore if no price list is enclosed with this catalog, you will know there is a TOGAN dealer in your vicinity and that your inquiry has been referred to him for answer.

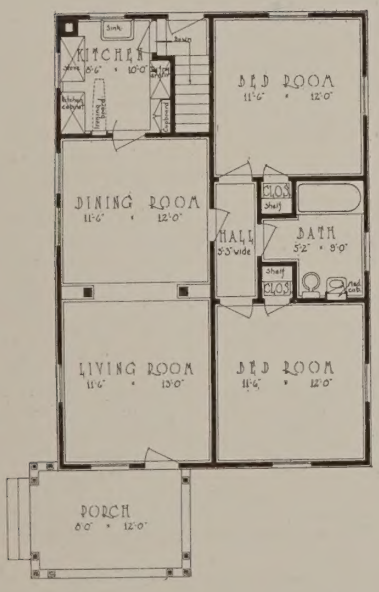


Togan Bungalow 620

OVERALL SIZE, 24′ x 40′
SHIPPING WEIGHT, 29,000 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 10

TOGAN Buildings come equipt with shutters, flower boxes and trellises, just as shown in the illustrations. In case there is any discrepancy between the illustration and the floor-plan of any building, such as a casement window being shown in the picture where a double hung window is called for on the plan, the building will be furnished in accordance with the floor-plan.



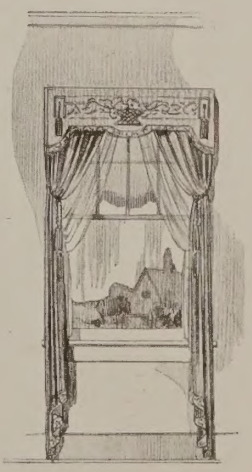


Togan Bungalow 541

OVERALL SIZE, 24′ x 34′
SHIPPING WEIGHT, 26,000 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 10

A DECIDED advantage of the new construction used on the models shown in this section is that it enables you to have a choice of three types of exterior finish at only a slight variance of cost. You may now have your choice of narrow siding, wide colonial siding, or shingles for any exterior. The price list gives the cost of each type. When shingles are ordered, a very high grade standard stained shingle is furnished.

They may be had in the following colors: Browns, greens, greys and white. When siding is ordered, sufficient paint is furnished to give the house two coats. (Note: Cottages and Industrial houses are furnished with 4-inch novelty siding *only*.)



Specifications for Togan Ready-Made Bungalows

GENERAL—These specifications are to cover all materials furnished and all work done by Togan-Stiles, Inc., and applies to all house models—numbers 540, 541, 542, 543, 620, and 712. All panels and pieces to completely finish any model of house are furnished including sash, doors, and interior and exterior millwork. All paint (white) for two coats outside including turpentine and linseed oil for thinning, hardware, shingles and plasterboard as given in following description are furnished. No material for chimney, foundation, heating, wiring or plumbing is furnished. No mantel or mantel shelf is furnished except as an extra or special order. Where lumber sizes are given the nominal size is used but it is understood that standard lumber sizes will be used and furnished. The right is reserved to substitute kinds and grades of lumber for those given in specifications, when kind specified is not obtainable, and when kind used is the equivalent or better than the kind specified.

BASEMENT POSTS AND GIRDERS: Basement posts are 6x6 No. 1 Yellow Pine of a length sufficient to allow for a basement 7′ 6″ deep from floor to underside of joist. Girders are 6x6 No. 1 Yellow Pine cut to exact lengths.

BASEMENT FRAMES: Basement frames are of No. 1 Pine completely machined ready for assembling. Basement sash are 10″x10″, three lights glazed and are 1⅜″ thick. Sash are trimmed to fit frame opening. One pair of steel butts and one fastener are furnished for each frame and sash.

BASEMENT STAIRS: Stairs from first floor to basement are furnished wherever shown on plans. The material for these consists of three horses or carriages of 2x10 No. 1 Yellow Pine, treads of 1x10 No. 1 Yellow Pine, risers from first floor to landing of 1x8 No. 1 Yellow Pine, framing for landing of 2x6 No. 1 Yellow Pine and flooring for landing of 4″ No. 1 Yellow Pine.

BASEMENT PARTITIONS: Due to variety of arrangement that may be desired in basement, no material for basement partitions is furnished except as an extra on special order.

FOUNDATION PLATES: Foundation plates are furnished of 2x6 No. 1 Yellow Pine cut to exact lengths for the building. As the basement wall is often cast immediately, no wall bolts are furnished with the building.

JOIST: Joist are 2x8 No. 1 Yellow Pine cut to exact lengths for placing in the building. A boxing joist of same material cut to exact length is furnished to close in the ends of the spanning joist.

BRIDGING: Bridging is 2″x2″ or equivalent cut and mitred to fit between joist. All spans of joist from 8′ 0″ and up to 12′ 0″ have one row of bridging. Where span is over 12′ 0″ two rows of bridging are furnished.

FLOOR: The sub-floor is a sheathing grade of Yellow Pine. The top floor is 4″ No. 1 Yellow Pine, flat grain. At slight additional cost edge grain Yellow Pine flooring will be furnished. Saturated and coated building paper is furnished for use between sub and top floor. The flooring is furnished in lineal lengths to be fitted as applied. The building paper is furnished in rolls of 500 square feet.

EXTERIOR WALLS: The walls are made up in standard sections 4′ 0″ wide or 2′ 0″ wide. All the doors and windows are placed in the 4′ 0″ sections. Special sections are made for bay windows, etc., which are 8′ 0″ wide. The standard wall section is 8′ 5″ high. These sections are made with three studs, each 2x4 No. 1 Yellow Pine and a sill piece 2x4 No. 1 Yellow Pine spiked together to form a solid frame over which is nailed sheathing. Sheathing is well nailed to each stud. The wall sections spike together and spike to the floor.

WINDOWS: All windows are of the style shown on the plans and elevations. The window panel is made up complete with the frame in place. Double hung or sliding sash are equipped with sash weights and cords, pockets and pullies in the frame, sash lock and sash lift. Casement windows are equipped with 3x3 butts and two casement fasteners. All sash are 1⅜″ thick and glazed. Window sash are crated separate from sections but are fitted to approximate size.

DOORS: All doors are of the style shown on the plans and elevations 1¾″ thick. The door panel is made up complete with the frame in place. Front doors are equipped with mortise cylinder lock and 3½″x3½″ butts. Rear doors with regular mortise lock and 3½″x3½″ butts. Doors are separate from sections but fitted to approximate size.

EXTERIOR FINISH: Siding or shingles is furnished for the exterior of all houses. See price list. The siding may be had in either 4″ siding or 8″ siding, the former showing 3¼″ to the weather when laid and the latter 7″ to the weather. Siding is furnished in lineal lengths to be fitted as applied. When shingled exterior is desired, a standard brand of stained shingles is furnished. These are 16″ long and lay 6″ to the weather. A good grade of saturated building paper is furnished with either siding or shingles in sufficient quantity to cover entire exterior walls.

GABLES are made up in complete sections with sash frames where shown on plans already in place. The studs are 2x4 with the sheathing nailed in place ready to receive the paper and siding or shingles.

ROOF FRAMING: Roof construction: Rafters are 2x6 No. 1 Yellow Pine placed 24″ on centers with a 2x6 tie-beam to each pair of rafters. Where necessary the rafters are further trussed with king and queen braces. The ridge board is 1x6 with rafter spacing marked on it. The closure is formed by a 1x6 piece dressed four sides cutting between the rafters and a bed mould to cover joint between this piece and the roof boards. Verge boards are 1½″x7½″ dressed four sides. All rafters, tie-beams, braces, verge boards, and ridge boards are completely machined, fitted, and ready to put in place.

ROOF SHEATHING: The roof sheathing is made up complete in panels, ready to lay. Panels are designed in such a manner that when laid, each panel breaks joints with the panel above and below. All the roof panels that overhang either on the rake or level cornices are made of beaded ceiling.

TRELLISES, flower boxes and blinds are furnished as shown completely made, ready to put in place.

INTERIOR PARTITIONS: Interior partitions are made up in complete sections 4′ 0″ wide and in part sections varying in width as necessary. Each full section has three 2x4 studs averaging 16″ on centers. These studs are nailed to a top and bottom plate.

PLASTERBOARD: Plaster board is furnished for all inside walls in sizes convenient to dimensions and shapes of the rooms. Plasterboard is the standard ⅜″ "Bestwall," "Sheetrock" or equivalent. Lath and plaster will be furnished if preferred, but we recommend the standard plaster board.

INTERIOR TRIM: Interior finish is furnished in Yellow Pine as follows: Six inch base for all rooms except closets, kitchen and bath, where a 4″ base is furnished, 3″ wainscot cap or chair rail for kitchen and bath. Three member frieze for living room and vestibule. Hook strips for all closets, and one 12″ shelf to each closet. When plasterboard is used panel strips will be furnished on request. Standard door and window trim consists of a 4″ casing and back band to match, stops, apron, stools, door jambs and stops. All interior doors are five cross panel design 1⅜″ thick. Closet doors are 2′ 0″ wide by 6′ 8″ high, and doors leading into rooms are 2′ 6″ wide by 6′ 8″ high.

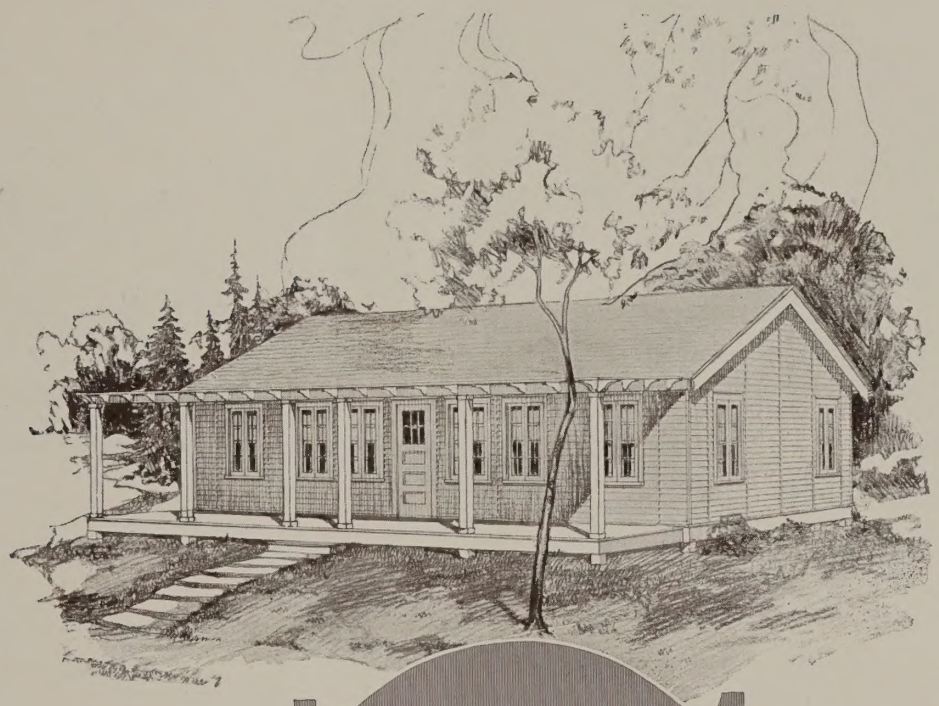
BUILT IN FURNITURE: Kitchen cupboard is of style shown on plans made up complete ready to put in place. All kitchen cupboards have an open countershelf with doors above and drawers and doors below. Completely furnished with all hardware. Medicine case is furnished wherever shown on plans and is complete with mirror of best quality plain plate silvered, complete and furnished with all hardware. Linen closet is furnished wherever shown on plans. Five shelves are furnished in all these closets, each shelf being the depth of the closet.

Ironing board is furnished wherever shown on plans. The board drops out of a wall case for use, and folds back out of the way into the case when not needed. The case is then closed with a door protecting the board and keeping it clean. Dining alcove sets are furnished complete when shown on plans and will seat four people. They are furnished complete with all hardware.

Bookcases or book shelves are furnished complete where shown on plans. They are complete with hardware.

(Continued on Page 29)

READY-MADE
SUMMER COTTAGES



TOGRN
BUILDINGS

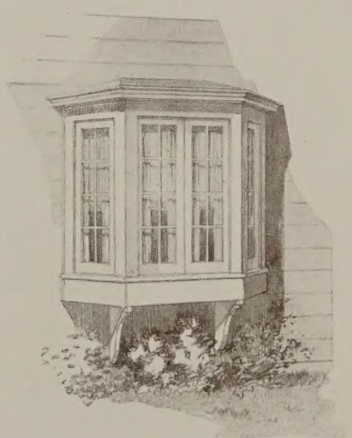
Togan Cottage 18

OVERALL SIZE, 22'x52'
SHIPPING WEIGHT, 25,600 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 17

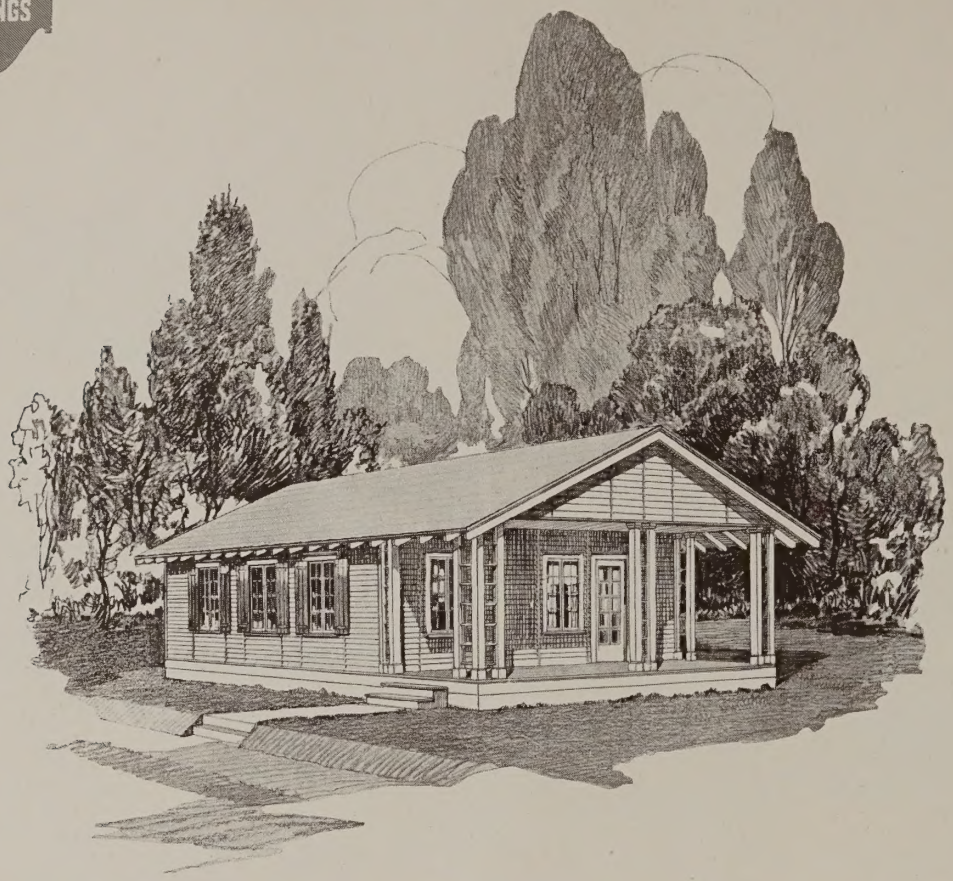
THE interiors of TOGAN cottages are unlined as the inside finish of the walls themselves is smooth clear Yellow Pine, Moreover, the rooms of the cottages are open to the rafters, as ceilings are usually undesirable. The partitions, as well as the underside of the roof, are made of beaded ceiling material, smooth finished like the inside walls. These partitions run up to the plate line only, giving the necessary amount of privacy, yet allowing overhead ventilation so desirable in summer cottages. In cases where a cottage is used in winter, inside lining and ceilings will be furnished. Estimates on request.

Togan Cottage 17

OVERALL SIZE, 32'x30'
SHIPPING WEIGHT, 20,500 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 17

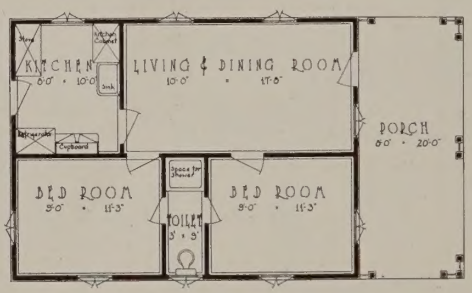


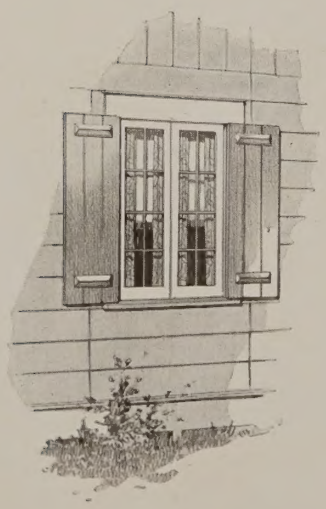
WE CALL particular attention to the fact that we do not furnish any plumbing, heating or wiring fixtures, nor do we furnish any materials for chimneys, fireplaces or foundation materials other than those listed in the specifications. Chimneys, kitchen and bath arrangements are shown in the floor-plans only as suggestions and they can be rearranged to suit your fancies. Therefore, the openings are not cut in the roof for chimneys. This entails only a few minutes work on the part of the mason and insures that the opening will be of the correct size and in correct position.



Togan Cottage 19

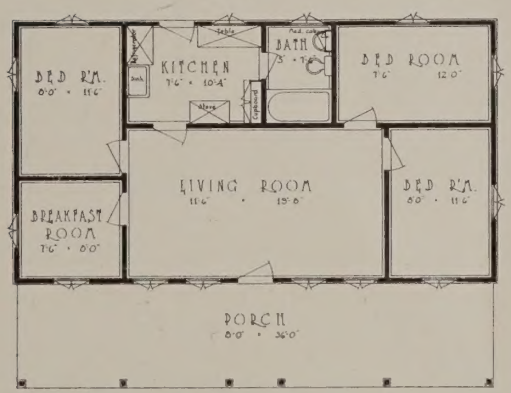
OVERALL SIZE, 20'x34'
SHIPPING WEIGHT, 16,800 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 17





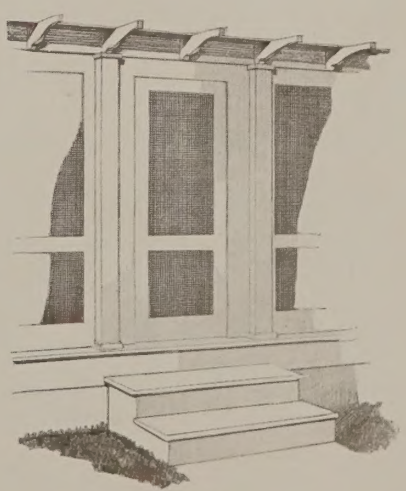
WHILE TOGAN cottages are of single wall construction as described in the specifications and on page 12, particular note is drawn to the fact that wherever interior bath or toilets are shown, they have over-head ceilings and are completely lined with plaster board. Interior trim is also furnished to give a finished and attractive appearance.

When desired we can furnish battens for all windows and doors. These are very desirable to protect your cottage from intruders during the winter months. Prices will be given on request.

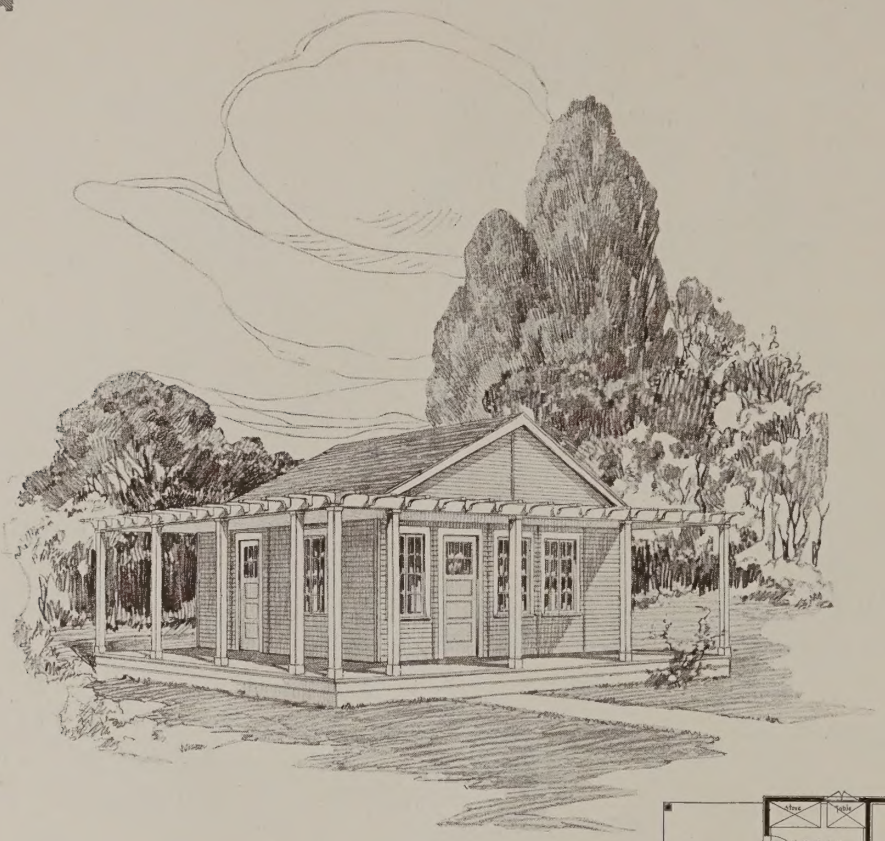


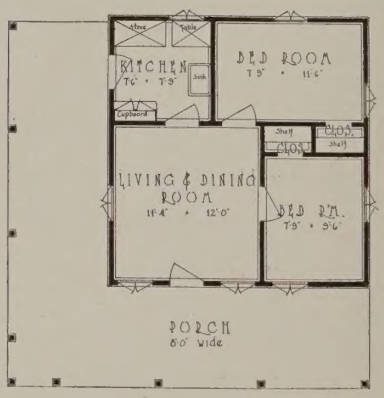
Togan Cottage 16

OVERALL SIZE, 28′x36′
SHIPPING WEIGHT, 20,900 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 17



SCREENS are not included in the prices quoted. Their cost is given separately in the price list, however. Kindly specify in placing your order, whether or not they are desired. Screens are carefully made from selected frame stock and high quality galvanized screen. On summer cottages where out-swinging casement windows are used, the screens are designed to hang on the interior window casing, making it unnecessary to remove them during the winter. All porch screens are full length and easily removable. A very fine grade of copper screen may be had at slight additional cost.





Togan Cottage 12

OVERALL SIZE, 28′ x 28′
SHIPPING WEIGHT, 15,400 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 17

FOR cottages that have no provision made for bath-room, we suggest the use of the 6′x8′ lean-to addition shown in the lower left hand corner of this page. The lean-to is attractive in appearance, having a pergola type roof which is in keeping with the design of all cottages. It comes equipped with two transom windows, hinged at the bottom so that they swing in from the top. The price also includes a regular interior door from the building proper into the lean-to. The ceiling height is 7′ 4″.

We also suggest the use of this addition where a bath is desired in the Industrial homes. When used for such a purpose we will furnish it completely ceiled with plaster board and with double floors at a slight extra cost.

Specifications for Togan Ready-Made Cottages

GENERAL—These specifications are to cover all materials furnished and work done by TOGAN-STILES, Inc. and apply to all cottage models.

All panels and pieces to make the complete cottage are furnished, including all sash and doors, all hardware, all glass, sufficient white paint for two exterior coats and roofing. No brick for chimneys or material for foundations other than the posts is furnished.

FOUNDATION—Cedar foundation posts, are furnished to properly support each cottage. Posts are furnished in 8′ lengths, to be cut and used in three pieces, in lengths as may be required by contours of ground. These posts support girders, of 6″ x 6″ No. 1 Yellow Pine cut net length, running the full length of the building. Each cottage has three girders, one for each side and one for the center. Where it is desired to erect cottage on concrete wall—the necessary changes will be made.

FLOOR CONSTRUCTION—All joists and boxing sills are 2″x6″ on the 20′ width buildings, and 2″ x 8″ on the 24′ width buildings, No. 1 material, cut to net lengths. Joists are placed 16″ on centers, bridged throughout. All joists are doubled at the ends of building. Porch joists are 2″ x 6″ No. 1 material, placed 2′ on centers, running parallel with the length of the porch. They are supported at the ends by doubled joists, placed at right angles to the joists. Flooring: Standard flooring regularly furnished is No. 1 Yellow Pine, flat grain, ¾″ thick by 3¼″ face. Flooring is dressed and matched and comes in lineal lengths. Note: At slight additional cost, a B & Btr. riftsawed (edge-grain) Yellow Pine flooring will be furnished.

WALLS—The walls are made up in standard sections 4′ wide, and in half-sections 2′ wide. All the windows and doors are placed in the 4′ wide sections. Wall sections are all 7′ 11″ high, assembled complete with studding. Studs are 2″ x 4″ No. 1 Yellow Pine standard lumber sizes, placed 2′ on centers, three studs to each 4′ section. The siding is tongued and grooved, commercially Clear Yellow Pine, special design, ½″ thick at top, ¾″ thick at the butt, and 3¼″ face. The wall sections spike together at the sides, and likewise spike to the sills. Where the sections join, a space is left between the ends of the siding. This space, also the joint made by the two studs coming together, is covered and closed in with a wedge-shaped filler strip that fits into the joint between the ends of, and flush with, the siding. Ordinary batten strips are not used. This filler-strip joint is absolutely weather-tight.

WINDOWS AND DOORS—All windows are out-swinging casements. They are hung and fitted complete at factory. Window openings are 2′ 8″ wide by 4′ 2″ high; each opening is fitted with a pair of casement sash 1⅜″ thick. Each sash is divided into 8 rectangular lights. Outside doors are 2′ 8″ wide by 6′ 8″ high by 1⅜″ thick, made with three cross panels below and glass above, divided into six lights to conform with style of windows. Doors are hung on 3½″x3½″ butt hinges and come fitted with standard mortise lock set.

SCREENS—Cottages are furnished with, or without screens, as desired (See prices.) Screens for all windows are full sized; they are made to hinge at the side on the inside window casing and swing in. Screen doors are complete, ready to hang. Porch screens are full length, made removable for winter storage.

PLATES—The wall plates are 2″ x 4″ No. 1 Yellow Pine made in continuous lengths, to go around tops of walls.

GABLES—The gables are made up in complete sections, two gables on buildings 20′ wide and three sections per gable on buildings 24′ wide of materials identical with those used in the walls.

ROOF CONSTRUCTION—Rafters are 2″x4″ on 20′ buildings and 2″ x 6″ on those 24′ wide, No. 1 Yellow Pine standard lumber sizes. They are completely made up in the factory ready to set in place. Rafters are spaced 24″ on centers. Tie-beams are likewise placed 24″ on centers. Every alternate pair of rafters is securely trussed with two braces; each brace extends from the center of the tie-beam and slants up on an angle to the middle of the rafter. The roof is further trussed with a brace extending from the center of the tie-beam to the ridge-board directly overhead. The entire roof sheathing is made up in complete panels ready to lay. They are so designed that each panel breaks joints with the panel above and below. These panels are made of beaded ceiling material which gives the underside of roof a finished appearance, in keeping with the finish of the partitions.

ROOFING MATERIAL—Roll roofing or shingles may be used. See price list for difference in costs. Roll roofing is highest quality asphalt saturated felt, with a crushed slate covering, in either red or gray-green color. Roll roofing weighs 85 lbs. per square; roofing nails and roofing cement are packed in each roll. Asphalt individual shingles with crushed rock surface may be had in either red or gray-green color. When individual shingles are furnished, shingle nails are included.

INTERIOR PARTITIONS—Made up complete in panels 4′ wide by 7′ 11″ high of beaded ceiling material. Partitions run up to plate line only, giving the necessary amount of privacy, yet allowing perfect ventilation. Ceilings are as a rule undesirable, for this reason the underside of roof which forms the ceiling is made of beaded material, Inside doors are five-cross panelled, size 2′ 6″ x 6′ 8″ x 1⅜″, completely hung and mortised for mortise lock set.

KITCHEN CUPBOARDS—Each cottage is furnished with a kitchen cupboard 3′ 4″ wide by 6′ 8″ high and 12″ in depth. Upper portion and lower portion each has two shelves enclosed with panelled doors. A space 12½″ high between shelved portions is equipped with open counter shelf. These cupboards are carefully made of clear material, beautifully grained, ready for oil or staining.

PORCHES—Porches are of styles as shown on plans. Porches may be had completely screened, with full length screens removable for winter storage. All screen wire is galvanized. Porch floors are sloped ¼″ to the foot, to insure proper drainage.

TRELLISES—Trellises are furnished wherever shown in illustrations.

HARDWARE—All hardware necessary to completely erect the cottage is furnished. All hinges holding windows and doors are applied at factory. The standard equipment for holding sash, when opened, is a 6″ hook—standard casement adjustors in solid bronze may be had at additional cost. Casement fasteners are packed with window sections. Coat hooks for closets are included. All finished hardware is dead black or Japanned finish.

PAINT—Sufficient white paint is furnished to give the outside of the cottages two complete coats. No paint for interior is included.

LEAN-TO ADDITION FOR BATH ROOM OR TOILET—Standard lean-to addition 6′ wide by 8′ long may be added to ends or sides of these cottages, where a semi-detached bath or toilet room is desired. This lean-to is made pergola type, in keeping with the porches. It comes equipped with two one-light transom windows, hinge at bottom to tip in at the top. Door leading outside may be substituted for one of the windows at slight extra cost.

ERECTION PLANS—Complete erection plans are furnished with each model, showing post plan, joist plan, sole and flooring plan, floor plan, wall plate plan, roof framing plan, roof panel plan, elevations, and details. All parts are listed in a schedule of parts, giving the name of each, the stencil number, and its position in the building.

Specifications for Togan Ready-Made Industrial Homes

TOGAN Buildings are manufactured in sections or built-up parts, ready to nail and spike together. A permanent building—not "ready-cut" piles of loose lumber, but built-up with more than two-thirds—66⅔—of all carpenter work done by special machinery. The construction principle, the specifications, the sizes, quantity and quality of materials are the same that a good carpenter would use. All walls, windows and door panels, the roof, gables and interior partitions are made up in completed sections at the factory; they come ready to nail and spike together. The girders, sills, joists, plates and rafters all come fitted to exact lengths. Sub-floor and top floor are furnished in lineal feet. Masonry, plumbing, heating, wiring and fixtures are not furnished by us; only the house itself complete. Following is a description of materials and equipment furnished:

FOUNDATIONS: Wall plate (for concrete wall) 2x6 laid flat, runs completely around wall. Girder, running through center is 6x6; girder is supported by concrete piers or posts spaced not over 8 ft. apart. For post foundations (when wall is not used) the wall plate is replaced by a 6x6 girder placed full length on each side and through center of building. These side girders, also center girder, are supported by posts spaced not over 7′ apart. Girders and plates are No. 1 long leaf Yellow Pine and come net lengths.

FLOOR CONSTRUCTION: Joists on 20′ buildings are 2x6, 16″ on centers with maximum span 9′ 3″, bridged throughout; Joists are doubled at ends of building and enclosed with boxing joists at sides of building. All joists are No. 1 Yellow Pine or equivalent. Sub-floor is ¾″ sound Yellow Pine lumber or equivalent. The top floor is 3¼″ face No. 1 flat grain Yellow Pine. An edge grain B and better Yellow Pine flooring will be furnished at slight additional cost. Building paper is furnished for lining between floors. Both sub-floor and top floor come in lineal feet; the top flooring is bundled. Water table and drip, moulded to provide water-tight joint between walls and plates, is furnished in lineal lengths in a select grade of Yellow Pine, or equivalent in White Pine.

WALLS: Walls are made up in standard sections 4′ wide, and in half-sections 2′ wide. Wall sections are 7′ 11″ high, built up complete with studding. Studs are 2x4 No. 1 Yellow Pine placed 2′ on centers, so placed as to be equal to 16″ spacing. Three studs to each four-foot section. Studs are covered with special patterned tongued and grooved C and better Yellow Pine siding, ½″ thick at the top, ¾″ thick at the butt and 3¼″ face. Each piece of siding is nailed with 6d Finishing Nails, two nails to each stud.
A waterproof building paper lines the inside of siding. Wall sections spike together at the sides, and likewise spike to sills. Where the sections join, a space is left between the ends of the siding. This space and also the joint made by the two studs coming together is covered and filled in with a wedge-shaped filler strip that fits into the space between the edges of, and flush with the siding. This filler-strip joint is absolutely weather-tight.

WINDOWS AND DOORS: Windows are double-hung sliding sash, White Pine or Fir, hung and fitted complete in window frames set into 4′ wall sections at factory. Top sash is cut into 8 lights, bottom sash is one light. Outside doors are 2′8″ wide by 6′8″ high by 1⅜″ thick, White Pine, hung complete in frame and section at factory. Style of door is three cross panel below, with six rectangular lights above. Wall plates are 2x4 No. 1 Yellow Pine cut net lengths.

GABLES: Gables are made up in complete sections, two sections, to each gable on building 20′ wide.

ROOF FRAMING: Roof construction: Rafters on the 20′ buildings are 2x4 No. 1 Yellow Pine placed 2′ on centers with a 2x4 tie-beam. Each alternate pair of rafters is securely trussed with two queen braces; each brace extends from the center of the tie-beam and slants up on an angle to the middle of the rafter. The rafters are further trussed with a king post extending from the center of the tie-beam to the ridge-board directly overhead. The ridge-board is 1x4 with rafter spacing marked on it. The closures are moulded to give weather-tight joint; where rafters run through, closures are notched, automatically spacing the rafters. Verge boards are 2x8 with a rake-strip or moulding 1x2. All rafters, tie-beams, braces, verge boards, closures, ridge, etc., are completely machined, fitted, ready to put in place.

ROOF SHEATHING: The roof sheathing is four and six-inch boards made up complete in panels, ready to lay. Panels are designed in such a manner that when laid, each panel breaks joints with the panel above and below. All the roof panels that overhang either on the rake or regular cornices are made of beaded ceiling material.

TRELLISES: Trellises, flower-boxes are furnished completely made up as called for in illustrations.

INTERIOR PARTITIONS: Interior walls are made up in complete sections 4′ wide, and in half-sections varying in width as necessary. Each full section has three 2x4 studs averaging 16″ on centers. Studs nail to 2x4 top and bottom plates.

PLASTER-BOARD: Plaster-board is furnished for all inside walls in sizes convenient to dimensions and shapes of the rooms. Plaster-board is the standard ⅜″ "Bestwall," "Sheetrock" or equivalent.

INTERIOR TRIM: Interior finish furnished is Yellow Pine, as follows: Six-inch base-board with shoe or carpet-strip for all rooms and 4″ base for closets; picture moulding for dining and living rooms. Standard door and window trim consists of 3½″ casings, with back-band to match, stops, aprons and stools, door jambs and door stops. All interior doors are five-cross panel design, all 1⅜″ thick. Closet doors are 2′ 0″ wide by 6′ 8″ high; doors leading into rooms are 2′ 6″ wide by 6′ 8″ high.

BUILT-IN FURNITURE: The kitchen cupboard furnished is 3′ 4″ wide by 6′ 8″ high by 12″ deep. There are four doors, two above and two below, with an open counter shelf between, with two drawers below shelf. All closets are furnished with coat-hook strips and one shelf 12″ wide. Linen closet, wherever shown on plans, is equipped with five shelves.

ROOFING: Shingles furnished on models No. 202 and No. 203 are the best grade mineral surfaced asphalt shingles and may be had in color choice of gray-green or dull red. These asphalt shingles are designed to lay 4″ to the weather and when so applied, give three thicknesses of shingles over the entire roof. Large head galvanized nails are furnished in sufficient quantities to lay the entire roof, using two nails to each shingle. Roll roofing furnished on all other models of industrial buildings is highest quality asphalt saturated felt with a crushed slate covering, in either red or gray-green color. Roll roofing weighs, 85 lbs. per square; roofing nails and cement are packed in each roll.

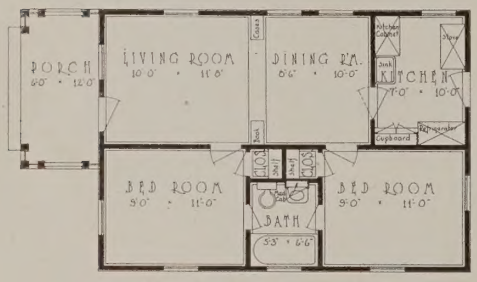
HARDWARE: All coat and hat hooks for closets are furnished. Rough hardware, all nails, spikes, screws, etc., are furnished to completely assemble the building; hardware is all standard building sizes. Finish hardware: The finish hardware for exterior doors is as follows: One pair of butt-hinges 3½″x3½″ applied at factory; one lock set not applied at factory, but all mortises and holes for same made ready to slide lock into. Finish hardware for interior doors: One pair of butt-hinges 3½″x3½″, and lock set. The interior door hardware is not applied at factory. Finish hardware for window consists of one window lift, three window spring bolts. The spring bolts are put on at factory. All miscellaneous hardware like cupboard knobs, catches, etc., are included.

PAINT: Sufficient paint, best grade outside white, is sent with each house to paint the exterior two complete coats. This must be thinned according to directions with linseed oil and turpentine, which we furnish. For interior painting and decorating, best grade of flat wall paint, enough for two coats, is furnished to cover all woodwork and walls. Color choice of inside paint includes gray, ivory or buff.

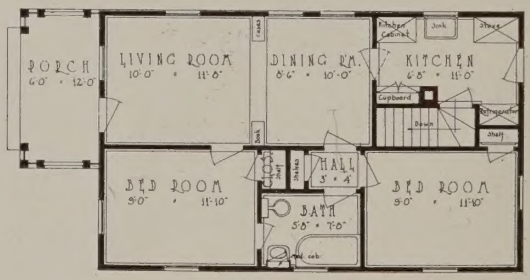
ERECTION PLANS: Complete erection plans are furnished for each house, showing foundation plans, floor plans and elevations, together with a section through the building showing how all parts fit together. Schedules are furnished giving a complete list of all parts showing the stencil numbers which appear on each part and the position of these are shown clearly on the erection plans.

READY-MADE
INDUSTRIALS

TOGAN
BUILDINGS



FLOOR PLAN NUMBER 202
SIZE, 20'x28' WITH 6'x12' PORCH
SHIPPING WEIGHT, 17,200 POUNDS

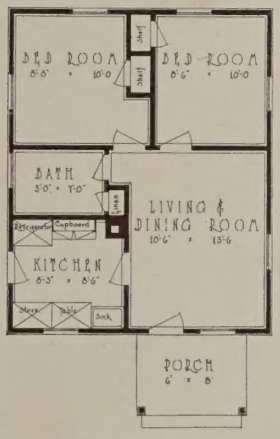


FLOOR PLAN NUMBER 203
SIZE 20'x32' WITH 6'x12' PORCH
SHIPPING WEIGHT, 20,000 POUNDS

Togan Industrial 202

SPECIFICATIONS OF MATERIALS
ON PAGE 18

DUE to the large number of inquiries for a small home to be placed over a full basement, we are offering model 202 with the choice of two floor plans. Both plan 202 and 203 have the same exterior appearance, but in plan 203 an interior basement stairway has been provided. While this home is constructed the same as the other Industrial models that follow, you will note that a few additional features, such as shutters, flower boxes, trellises and groups of porch posts are included. This home also comes equipped with individual asphalt slate shingles.

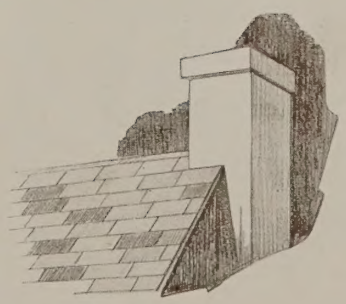


FLOOR PLAN NO. 31

Togan Industrial 31

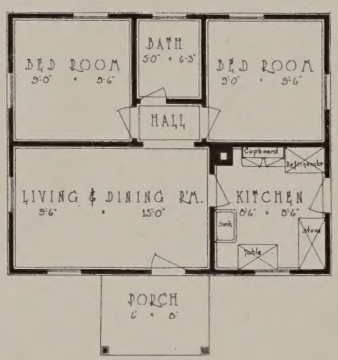
SIZE, 20'x24' 7" WITH 6'x8' PORCH
SHIPPING WEIGHT, 13,500 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 18

A VERY important factor of the following Industrial House models is that every floor plan of the 20'x24' size is interchangeable. In other words, you may have at slight variance of cost any one of the six interior arrangements with any of the elevations. For instance: Floor plan number thirty-six can be used with elevation number thirty-one, or plan thirty-two could be used with elevation thirty-one. Therefore, it is necessary when placing your order to specify both the elevation and floor plan desired.



Togan Industrial 32

SIZE, 20'x24' 7" WITH 6'x8' PORCH
SHIPPING WEIGHT, 13,500 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 18



FLOOR PLAN NO. 32

EXECUTIVES of companies having a large number of employees, will find it well worth while to study carefully the possibilities and advantages of using TOGAN Buildings in Industrial developments. The decided variance of exterior appearance of the Industrial group makes it possible to complete an entire development without having that tiresome and unpleasant sameness so usually found. Employees appreciate living in TOGAN homes for they find them warm, carefully constructed, and of unusually convenient arrangement.

FLOOR PLAN NO. 33

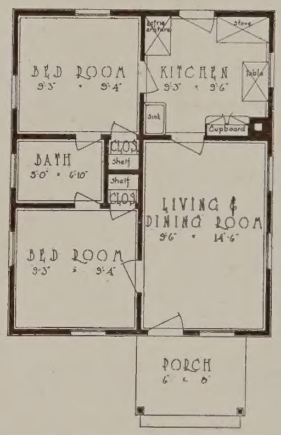
Togan Industrial 33

SIZE, 20'x24'7" WITH 6'x12' PORCH
SHIPPING WEIGHT, 14,500 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 18

CONCERNS contemplating the erection of homes for their employees will do well if they consult with the TOGAN Industrial engineers before completing their arrangements. The furnishing of homes for several large developments during the past few years and constant study of the Industrial needs, equips us particularly well to assist in the selection of the type and size of buildings best adapted to your needs. We will gladly co-operate in every way and give you the full benefit of our years of home building experience.

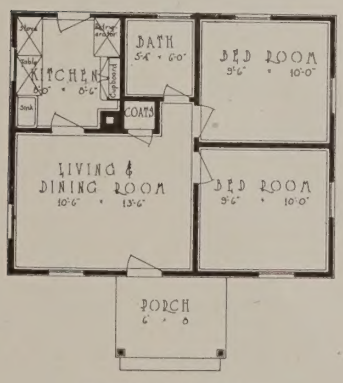
Togan Industrial 34

SIZE, 20'x24' 7" WITH 4'x6' PORCH
SHIPPING WEIGHT, 13,500 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 18



FLOOR PLAN NO. 34

THE TOGAN Industrial House group has been designed to meet the rapidly growing demand for small, conveniently arranged, low priced homes. They are made to meet the means of the working-man who is desirous of owning his own home, thereby taking a long step toward the goal of success. The average man rents, not because he wants to, but rather because building or buying is beyond his means. The TOGAN Industrial Home opens the way for every ambitious man to *home-ownership.*



FLOOR PLAN NO. 35

Togan Industrial 35

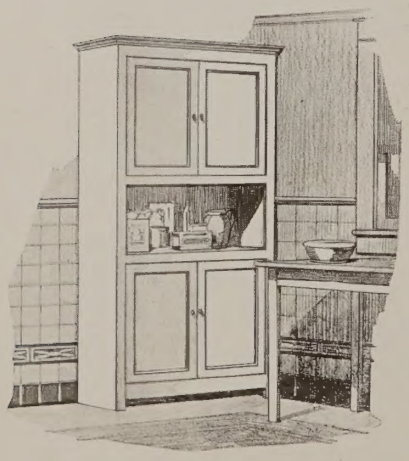
OVERALL SIZE, 20'x24' 7" WITH 4'x6' PORCH
SHIPPING WEIGHT, 13,400 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 18

IN SPITE of the fact that TOGAN Industrial Homes are extremely low priced, you will find that the grades of materials and the class of workmanship are the same as used in the manufacture of all other TOGAN Buildings. These buildings are of true double wall construction; the studs are covered on the exterior with TOGAN Novelty siding, on the interior with plaster board, with a high grade water-proof building paper between. Attention is called to the fact that models 31 to 36 inclusive are furnished with slate covered, asphalt rolled roofing. Strip or individual shingles may be had, however, at slight additional cost.

Togan Industrial 36

SIZE, 20′x24′ 7″ WITH 6′x8′ PORCH
SHIPPING WEIGHT, 13,600 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 18

FLOOR PLAN NO. 36



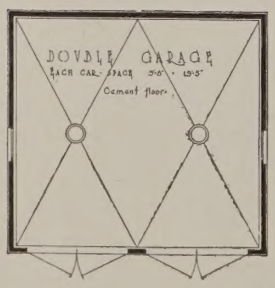
ONE of the outstanding features of all TOGAN Buildings is the rapidity with which they may be erected. This, of course, is due to their sectional construction. Erection is facilitated, however, by each section being made so that it is interchangeable with each similar section. This point is illustrated by the fact that in erection, windows may be placed in any position desired. This is done by putting a plain wall section where the window is called for on the plans and by placing a window section in its place.

READY-MADE GARAGES

TOGAN BUILDINGS

Togan Garage 218

OVERALL SIZE, 20′ x 18′ 7″
SHIPPING WEIGHT, 5,900 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 32



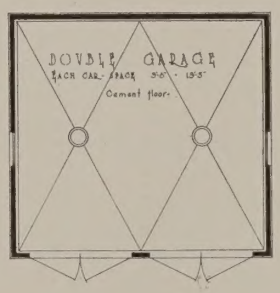
Garages 216 and 220 have the same appearance as model 218. See page 31 for sizes.

SIMPLE instructions are furnished with each building telling just how all sections go together. These directions are easily followed. All parts are pre-tested at the factory and fit accurately. You have no sawing or cutting to do; simply nail and spike sections together. All wall sections and sections containing windows are identically the same in size. They are interchangeable and fit anywhere. You do not have to pick out a certain section and fit it in a particular place. They are all alike. Roof sections, rafters, tie-beams are likewise practically all alike and fit anywhere. The entire building nails and spikes together just as the carpenter would nail it, if he were to build it entirely by hand. You can do this simple work yourself and save money. No bolts whatsoever are used. The construction is sound and lasting, all materials guaranteed.

Togan Garage 280

OVERALL SIZE 20′ x 18′ 7″
SHIPPING WEIGHT, 5,970 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 32

Garages 200 and 260 have the same appearance as model 280. See page 31 for sizes.



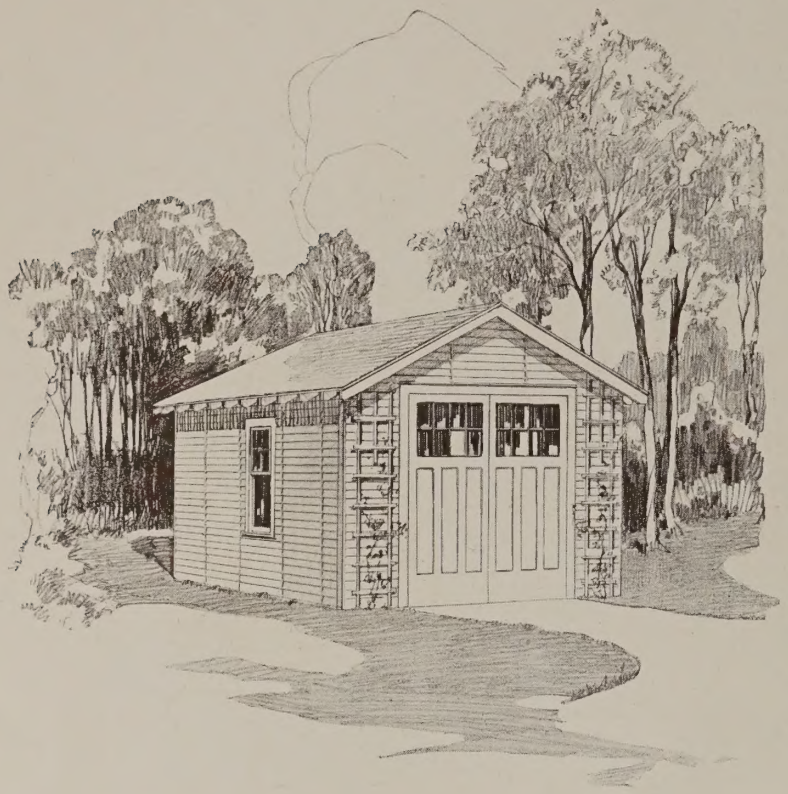
TOGAN BUNGALOW SPECIFICATIONS *(Continued from page 10)*

ROOFING: Shingles are furnished in either stained wood shingles or mineral surfaced asphalt shingles. See price list. Where stained wood shingles are furnished they are the best grade Red Cedar vertical grain and stained with best grade shingle stain. Galvanized shingle nails are furnished in sufficient quantity to lay the shingles properly. Where asphalt mineral surfaced shingles are furnished they may be had in either gray-green or dull red. These shingles are designed to lay 4″ to the weather and when so applied give three thicknesses of shingles over entire roof. Large head galvanized nails are furnished in sufficient quantities to lay entire roof using two nails to each shingle.

HARDWARE: All rough hardware is furnished, nails, spikes, screws, siding nails, shingle nails, etc., to completely erect the house. All rough hardware is in standard sizes. All finish hardware is furnished: butts, locks, lock sets, door stops, window weights, window cords, sash fasteners, adjustors where sash swing out, sash lifts, sash locks, cupboard hardware, and coat and hat hooks for all closets. All finish hardware is brass plated except outside door sets and casement adjustors which are solid bronze.

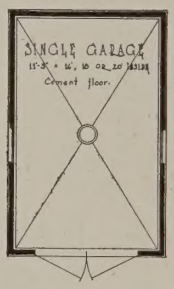
PAINT: Sufficient best grade outside white is sent with each house to paint the exterior two complete coats. This must be thinned according to directions with linseed oil and turpentine which we furnish. For interior painting and decorating when plaster-board is used, best grade of flat wall paint, enough for two coats is furnished to cover all woodwork and walls. When lath and plaster is ordered in place of wall board, paint is furnished for woodwork only. Color choice of inside paint includes gray, ivory or buff.

ERECTION PLANS: Complete erection plans are furnished for each house, showing foundation plans, floor plans, and elevations, together with a section through the building showing how all parts fit together. Schedules are furnished giving a complete list of all parts showing the stencil numbers which appear on each part and the position of these are shown clearly on the erection plans.



Togan Garage 128

OVERALL SIZE, 12′ x 18′ 7″
SHIPPING WEIGHT, 4040 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 32



Garages 120 and 126 have the same appearance as model 128. See page 31 for sizes.

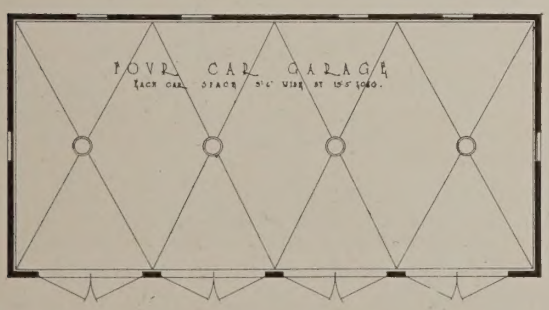
Togan Garage 118

OVERALL SIZE, 12′ x 18′ 7″
SHIPPING WEIGHT, 4100 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 32

Garages 110 and 116 have the same appearance as model 118. See page 31 for sizes.

Togan Garage 240

OVERALL SIZE, 20'x40'7"
SHIPPING WEIGHT, 11,200 POUNDS
SPECIFICATIONS OF MATERIALS
ON PAGE 32



Garages 232, 248, 258, 268, 276, 288, and 296 have the same appearance as model 240. See this page for sizes.

The specifications on next page are to cover all materials furnished and all work done by Togan-Stiles, Inc., and apply to all of the following models:

NO.	SIZE	NO. CARS	GABLE ROOF	SIDEWALL HEIGHT	WINDOWS
126	12x16	One	Plain	8' 0"	2
128	12x18	One	Plain	8' 0"	2
120	12x20	One	Plain	8' 0"	2
216	20x16	Two	Plain	8' 0"	2
218	20x18	Two	Plain	8' 0"	2
220	20x20	Two	Plain	8' 0"	2
116	12x16	One	Clipped	8' 0"	2
118	12x18	One	Clipped	8' 0"	2
110	12x20	One	Clipped	8' 0"	2
260	20x16	Two	Clipped	8' 0"	2
280	20x18	Two	Clipped	8' 0"	2
200	20x20	Two	Clipped	8' 0"	2
232	20x32	Three	Plain	8' 6"	3
240	20x40	Four	Plain	8' 6"	4
248	20x48	Five	Plain	8' 6"	5
258	20x58	Six	Plain	8' 6"	6
268	20x68	Seven	Plain	8' 6"	7
276	20x76	Eight	Plain	8' 6"	8
288	20x88	Nine	Plain	8' 6"	9
296	20x86	Ten	Plain	8' 6"	10

All panels and pieces to make the complete garage are furnished including all sash and doors, all hardware except padlock, all glass, all paint (white) for two coats and roofing. No cement or other material for drive way and foundations is furnished.

Specifications for Togan Ready-Made Garages

SILLS: The sills are 2″x4″ No. 1 Yellow Pine dressed four sides and cut to exact lengths. Sill spikes are furnished to fasten sills to concrete floor.

WALLS: The walls are made up in standard sections 4′ wide, and in half-sections 2′ wide. All the windows and doors are placed in the 4′ wide sections. Wall sections are all 7′ 11″ high, assembled complete with studding. Studs are 2″x4″ No. 1 Yellow Pine full lumber sizes, placed 2′ on centers, three studs to each 4′ section. The siding is tongued and grooved, commercially Clear Yellow Pine, special design ½″ thick at top, ¾″ thick at the butt, and 3¼″ face. The wall sections spike together at the sides, and likewise spike to the sills. Where the sections join, a space is left between the ends of the siding. This space, also the joint made by the two studs coming together, is covered and closed with a wedge-shaped filler strip that fits into the joint between the ends of and flush with the siding. Ordinary batten strips are not used. This filler-strip is absolutely weather-tight.

WINDOWS: The windows are built up complete in the window panels with the frame in place and sash glazed and fitted. The panels holding the windows are the same size as the standard plain wall panel 4′ 0″ wide by 7′ 11″ high. Framing studs, headers, stretchers and lap studs are 2″x4″ No. 1 Yellow Pine dressed four sides, all securely spiked in place.

The window frame, with moulded drip cap, head casing 4½″ wide and side casings 3½″ is securely nailed to the siding covered frame. Windows are double hung sliding sash, two sash to each window. Each light is 28″ wide and 20″ high, glass size; sash is 1⅜″ thick. The top sash is divided into 8 lights, 4 lights wide and 2 lights high. The bottom sash has a single light. Each window is furnished with spring sash bolts for locking sash, also holding them raised at any height desired. A sash lift is also furnished for the bottom sash. Sash are of No. 1 quality, White Pine or Spruce. Outside casings or exposed parts are C & better Yellow Pine. The window panels are interchangeable with the plain wall panels; for that reason, windows may not necessarily be placed one on each side, but can be located where desired. Extra window panels may be secured to replace plain wall panels. See price list.

SIDE ENTRY DOOR: A side entry door may be desired and will be furnished at slight additional cost to replace a standard plain-wall panel, or window panel. The panel holding the side entry door is of the same size as the wall or window panel; it is likewise interchangeable, allowing entry door to be placed on either side or in the back of the garage. The door with frame is built and fitted into the panel. Door is standard size, 2′ 8″ wide, 6′ 8″ high and 1⅜″ thick; upper portion is glazed, the glass cut into 6 lights, 3 lights wide and 2 lights high; lower portion is divided into three cross panels. The door is hung on two 3½″x3½″ butts. Each door is equipped with complete hardware. See price list for the additional cost of side entry.

GARAGE DOORS: The garage doors are standard stock size 8′x8′x1¾″ thick. Each door has 6 lights (or 8 lights) above, and three vertical panels below. Each set of doors is furnished with three pairs of 8″ Extra Heavy "T" hinges with screws; 1 steel chain bolt, 1 steel foot bolt, steel garage door pull, or handle, and 1 "Positive" latch. All hardware is Japanned finish. The doors are No. 1 quality of either Fir, Spruce, or White Pine; the glass is fastened in place with stops. Garage doors swing out.

GARAGE DOOR PANELS: The panels in front at the sides of the garage doors of a 12′ garage are each 2′ wide; on the two car garage which is 20′ wide, these door panels are 1′ 4″ wide. On the multiple garages these panels are 2′ 0″ or 1′ 4″ according to the length of the garage. The casings on these panels that carry the hinges are backed with doubled studs, made up of the regular stud and a lap stud securely spiked together. This gives extra bearing strength at the hinge casings. Casings are 3½″ wide; head casing over doors is 5½″ wide and supports a moulded drip cap. The garage door opening is full 8′x8′ in the clear, allowing generous room at sides and top for all cars.

GABLES: The gables are made up complete in panels; one panel for each gable end on the single garage; two panels for each gable end on the double. The framing consists of the wall plate and rake plates, with studs spaced 2′ on centers. All framing is 2x4 dressed four sides. Tongued and grooved siding is nailed securely to the frame. The gables conform to a roof pitch of 6″ rise to each 12″ run.

PLATES: On the single and double garages the plates are 2x4 No. 1 Yellow Pine cut to exact lengths. On the multiple garages the plates are built up members consisting of two pieces of 2x4 No. 1 Yellow Pine and two pieces of 2x6 No. 1 Yellow Pine all completely fabricated and cut to exact lengths.

JOINT STRIPS: The joints between the wall panels are closed with a weather-tight joint strip which fits flush with the siding by fitting tightly between the siding ends. This special joint strip nails direct to the studding, between the ends of the siding, not over it.

TRELLISES: Two trellises as shown in the picture are furnished with each single garage; three trellises, with each double garage. These trellises are made up of ¾″x1½″ dressed lattice stock, securely nailed up complete ready to place.

ROOF FRAMING: The rafters are 2 x 4 No. 1 Yellow Pine dressed four sides; they are spaced 2′ on centers. Each alternate pair of rafters has a tie or collar beam spanning across building. Each pair of rafters with this tie-beam forms a truss. The rafters are notched to fit over the wall plate. The upper ends of the rafters are beveled to fit against a ¾″x3½″ ridge piece which is cut net length and marked to show correct rafter spacing. The spaces between the rafters at the plate line are closed tightly with a closure-piece moulding which laps over the siding. The closure-piece is notched so that rafters fit exactly. All rafters and plates spike in place.

ROOF SHEATHING: The roof sheathing is made of boards in panels, average size for main portion of roof 2′ 3″ wide by 4′ or 6′ long. The cornice panels that overhang the eave cornice and rake cornice are made of C & Btr Yellow Pine Ceiling. The roof overhangs 1′ 0″ along the eaves, and 1′ 1″ along the rake cornice. The roof panels nail to the rafters. At the ends of the roof along the rake cornice, the cornice panels are supported by verge boards.

VERGE BOARDS: Verge boards are 7½″ wide and come with rake moulds attached.

ROOFING MATERIAL: Roll roofing or shingles may be used. See price list for difference in costs. Roll roofing is highest quality asphalt saturated felt, with a crushed slate covering, in either red or gray-green color. Roll roofing weighs 85 lbs. per square; roofing nails and roofing cement are packed in each roll. Asphalt individual shingles with crushed rock surface may be had in either red or gray-green color. When individual shingles are furnished, shingle nails are included.

PAINT: Sufficient paint of standard make highest quality mixed paint is furnished to paint the garage two coats. The amount is based on the manufacturer's claim of covering quality. Pure linseed oil and turpentine which is furnished with the garage should be added to paint and mixed thoroughly before applying. These garages are not painted at the factory.

HARDWARE: In addition to the hardware listed under Doors and Windows, sufficient quantities of nails and spikes are furnished in various sizes to completely erect the building. All parts are nailed and spiked together, not bolted.

ERECTION PLANS: Complete erection details are furnished with each model, showing sill plan, floor plan, roof framing plan, elevations and also complete plans for cement floor and wall. All parts are listed, giving the name of each, the stencil number, and its position in the building.

TOGAN-STILES INCORPORATED, GRAND RAPIDS, MICHIGAN

READY MADE BUILDINGS

DISTRIBUTED BY

W. J. HYLAND, Jr.

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Springfield, Massachusetts